OIPE JC183
AUG 12 2004
PATENT & TRADEMARK OFFICE

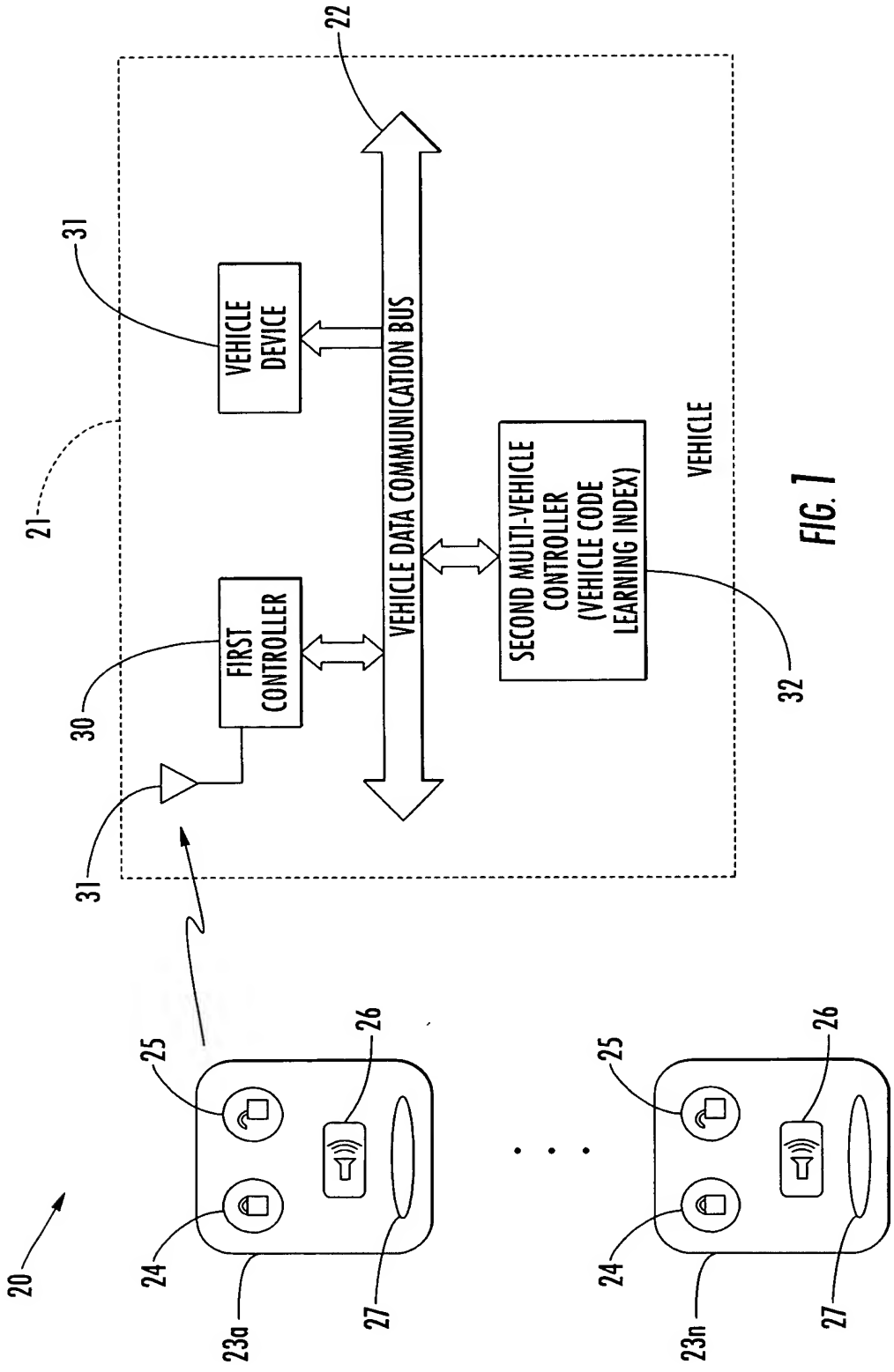

FIG. 1

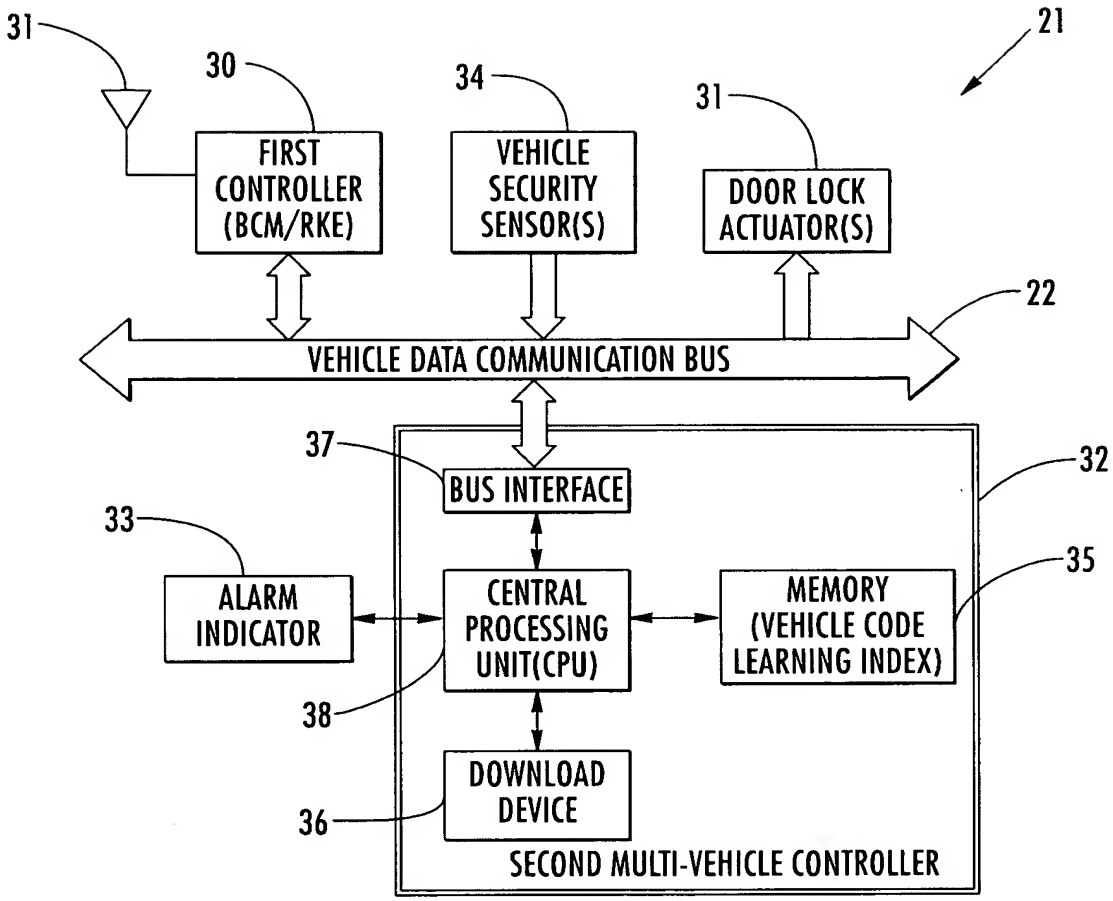
31
30
34
31
21
FIRST CONTROLLER (BCM/RKE)
VEHICLE SECURITY SENSOR(S)
DOOR LOCK ACTUATOR(S)
22
VEHICLE DATA COMMUNICATION BUS
37
BUS INTERFACE
32
33
35
ALARM INDICATOR
CENTRAL PROCESSING UNIT(CPU)
MEMORY (VEHICLE CODE LEARNING INDEX)
38
DOWNLOAD DEVICE
36
SECOND MULTI-VEHICLE CONTROLLER

FIG. 2

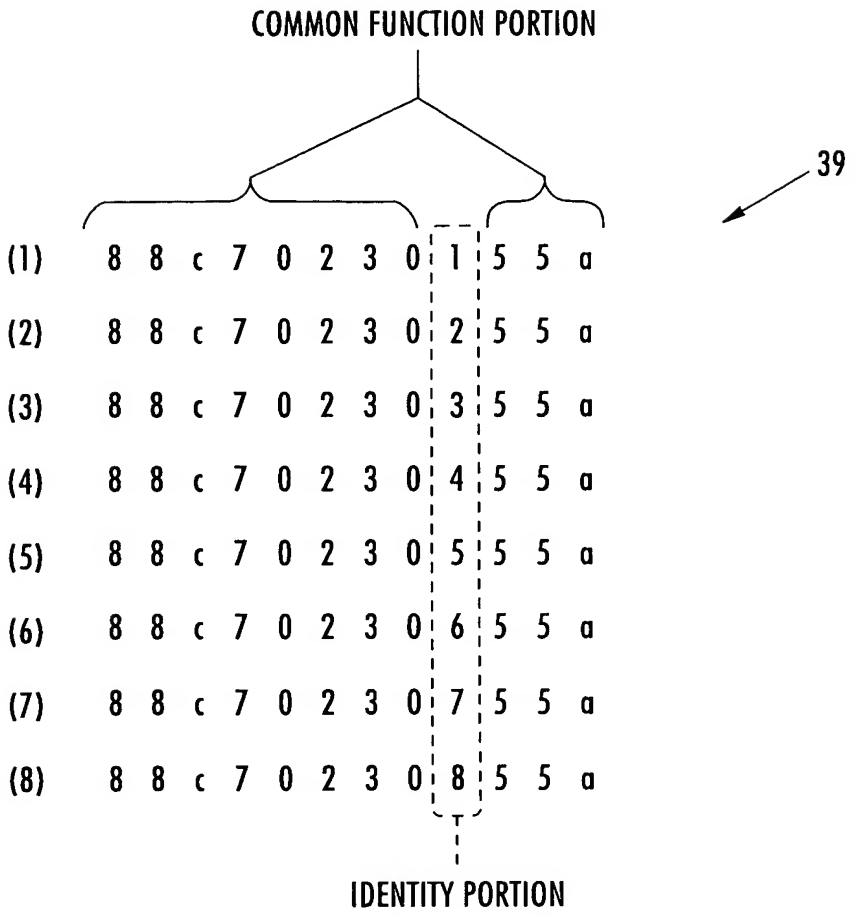

FIG. 3

40

VEHICLE	POSSIBLE DATA BUS CODE
VEHICLE A	1 2 3 4 5 6 7 8 9 X A B
VEHICLE B	C D E F X 0 1 2 3 4 5 6
VEHICLE C	7 8 9 A B C D X E F 0 1
. . .	. . .
VEHICLE N	2 3 4 5 6 X 7 8 9 A B C

FIG. 4

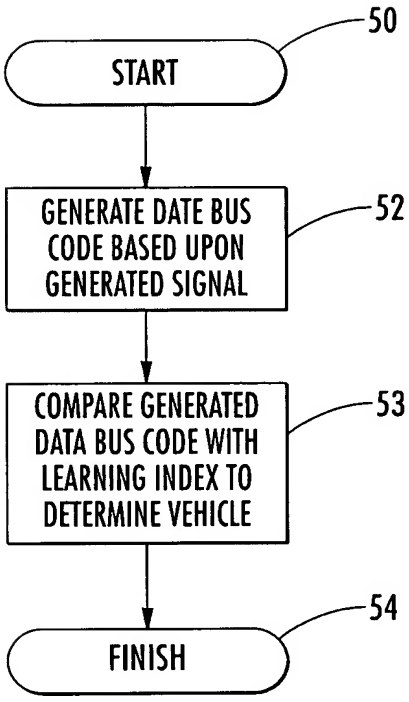
START
50
GENERATE DATE BUS CODE BASED UPON GENERATED SIGNAL
52
COMPARE GENERATED DATA BUS CODE WITH LEARNING INDEX TO DETERMINE VEHICLE
53
FINISH
54

FIG. 5

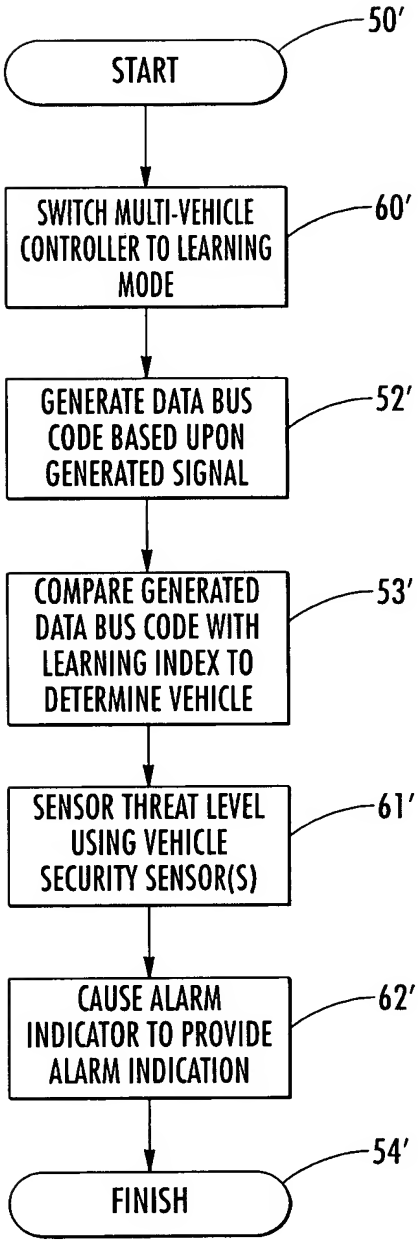
START
50'
SWITCH MULTI-VEHICLE CONTROLLER TO LEARNING MODE
60'
GENERATE DATA BUS CODE BASED UPON GENERATED SIGNAL
52'
COMPARE GENERATED DATA BUS CODE WITH LEARNING INDEX TO DETERMINE VEHICLE
53'
SENSOR THREAT LEVEL USING VEHICLE SECURITY SENSOR(S)
61'
CAUSE ALARM INDICATOR TO PROVIDE ALARM INDICATION
62'
FINISH
54'

FIG. 6

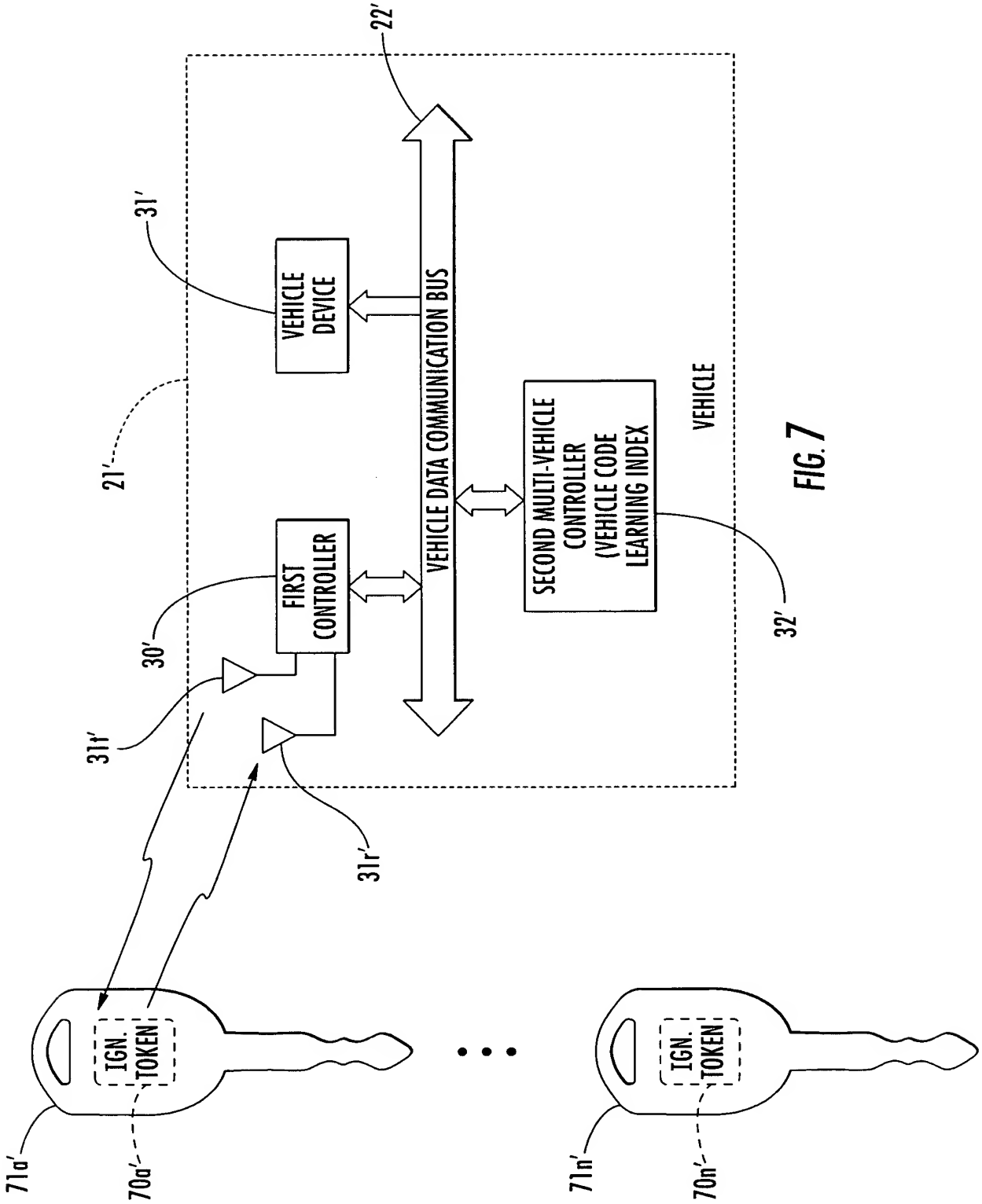
22'
31'
VEHICLE DEVICE
VEHICLE DATA COMMUNICATION BUS
21'
VEHICLE
SECOND MULTI-VEHICLE CONTROLLER (VEHICLE CODE LEARNING INDEX
32'
30'
FIRST CONTROLLER
31f'
31r'
IGN. TOKEN
71a'
70a'
IGN. TOKEN
71n'
70n'

FIG. 7